

CONTIPOXY 1297 (EP-999H/FD) HIGH SOLIDS EPOXY COATING

TYPE

The coating is based on aliphatic amine cured epoxy resin with anti-corrosive pigment.

USES

Use for ship, bridges, tanks, pipelines, petrochemical plants and steel structures.

CHARACTERISTICS

- Tough and hard film.
- Excellent anti-corrosion, water, oils and chemical resistance.
- Special formulation of anti-corrosion, both in excellent inhibitory and hiding performance of corrosive protection for steel.
- Can be applied to variety types of coating, or be coated a variety type of coating, for the best maintenance coating.
- When primer use IZ-01 or PU700 and topcoat use high weather resistant paint, the anticorrosion performance is especially excellent.

PRACTICAL INFORMATION

Color	Gray, Red Brown
Gloss Level	Semi-gloss
VOC Values	1.4 lbs/gal (170g/l)
Volume Solids	Above 80%
Theoretical Coverage	4 mils : 338.2 ft ² /gal (8.3 m ² /l) 10 mils : 130.4 ft ² /gal (3.2 m ² /l)
Typical Thickness	DFT : 4~10 mils WFT : 5~12.5 mils
Service Temperature	≤194°F (90°C)
Preceding Coats	Self primer, Inorganic zinc , Epoxy zinc
Subsequent Coats	PU coating, Flurocarbon coating
Repair	Self-repair

SUBSTRATES & SURFACE PREPARATION

General	Remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating. Surfaces must be clean and dry. Moisture, grease, sludge, dust, corrosive salt must be thoroughly cleaned from substrate.
Steel	Surface preparation standards can be used SSPC-SP10 · Sa2 1/2 (ISO 8501-1:2007) or hand rusting to SIS St3. Roughness for structure of carbon steel requires for 45~60 microns.

CONTIPOXY 1297 (EP-999H/FD) HIGH SOLIDS EPOXY COATING

SUBSTRATES & SURFACE PREPARATION

Stainless & Galvanized

The galvanized or stainless steel must be sand blasted to SIS Sa1 before application. Roughness for stainless and galvanized steel surface should be above 25 microns.

Primed Surfaces

CONTIPOXY 1297 should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination and CONTIPOXY 1297 must be applied within the overcoating intervals specified. (consult the relevant product data sheet)

Areas of Breakdown and Damage

Should be prepared to the specified standard (Sa2 1/2 (ISO 8501-1:2007) or SSPC-SP6, Abrasive Blasting or SSPC-SP11, Power Tool Cleaning) and patch primed prior to the application of CONTIPOXY 1297.

PERFORMANCE DATA

Test Method	System	Results
ASTM D5894-96 ASTM D4541-09 Type V cyclic corrosive	Blasted Steel IZ-01 (75 um) EP-999 (150 um) UP-450 (60 um)	No cracking and peeling in appearance Original adhesive strength : 8.0 MPa Percentage of adhesive strength retention after cyclic corrosive test : 69.6%(5.57 MPa)
ASTM G8-96 B Cathodic Disbonding of Pipeline Coatings 60 days	Blasted Steel 1 ct. 1027HZ (100 um) 2 cts. EP-999GF (130 um) 1 ct. UP-450F (60 um)	No blistering, cracking and rusting
ASTM B117-11 Salt Spray	Blasted Steel 1 ct. 1027HZ (100 um) 2 cts. EP-999GF (130 um) 1 ct. UP-450F (60 um)	No blistering, cracking and rusting after 2000hrs
ASTM F963 Soluble Heavy Metals	1 ct. EP-999	N.d (Sb, As, Cd, Cr, Pb, Hg, Ba, Se)

Test reports and additional data available upon written request.

CERTIFICATION

- Norsok M-501-04 : Report number KV-12-08801XA-1 (SGS Taiwan Ltd.)

CONTIPOXY 1297 (EP-999H/FD) HIGH SOLIDS EPOXY COATING

MIXING & THINNING

Mixing	Mix base and hardener according to the mixing ratio and stir thoroughly.
Thinning	Use Epoxy Thinner (CONTITHINNER 12) to thin up 5-10%
Mixing Ratio	Base : Hardener = 1 : 1 (by volume)
Pot Life	4 hours at 77 °F (mixture, 25°C)

APPLICATION EQUIPMENT GUIDELINES

Spray Application	Avoid applying the paint in rainy weather or the relative humidity exceed 85%, particularly, a wet surface must be thoroughly dried. All equipment must be cleaned immediately after use. The usage of thinner will increase or decrease depending on the temperature of the coated surface.
Airless Spray	Pump ratio : 30:1 or greater Tip size : 0.021"~0.029" Output PSI : 2800~4000 PSI
Brush	Application by brush is applicable. Thinning rate: 0~5%. For special condition please consult with product manufacturer.
Roller	Application by roller is applicable. Thinning rate: 0~5%. For special condition please consult with product manufacturer.

APPLICATION CONDITIONS

Condition	Coating	Surface	Environment	Humidity
Minimum	50°F(10°C)	50°F(10°C)	50°F(10°C)	30%
Maximum	113°F(45°C)	122°F(50°C)	113°F(45°C)	85%

CURING SCHEDULE

Surface Temp. (50% Relative Humidity)	Touch Dry	Hard Dry	Dry to Handle
50°F (10°C)	12 hours	24 hours	7 days
77°F (25°C)	5 hours	8 hours	7 days
122°F (50°C)	1 hours	4 hours	3 days

OVERCOATING INTERVAL

Surface Temp. (50% Relative Humidity)	Minimum	Maximum
50°F (10°C)	2 days	14 days
77°F (25°C)	8 hours	7 days
122°F (50°C)	2 hours	3 days

CONTIPOXY 1297 (EP-999H/FD) HIGH SOLIDS EPOXY COATING

CLEANER & SAFETY

Cleaner	Use Epoxy Thinner (CONTITHINNER 12) to clean. In case of spillage, absorb and dispose of in accordance with local applicable regulations.
Safety Ventilation	Please read and follow all caution statements on this product data sheet and MSDS for this product. Proper ventilation and protective measures must be provided during application and drying to keep solvent vapor concentrations within safe limits and to protect against toxic or oxygen deficient hazards.

PACKAGE, HANDLING & STORAGE

Shelf Life	Minimum 18 months under normal conditions.
Shipping Weight	2 Gallon Kit – Part A : 5.51 lbs (5 kg) Part B : 5.51 lbs (5 kg) 5 Gallon Kit – Part A : 27.55 lbs (12.5 kg) Part B : 27.55 lbs (12.5 kg)
Storage Temperature & Humidity	41-95°F (5-35°C) 0-90% Relative Humidity
Flash Point	Above 174°F (79°C)(After mixed)
Storage	Store in dry, shaded conditions away from sources of heat and ignition.